

1    **CLAIMS**

2    1.   A vegetable wax-based composition suitable for

3    manufacturing a candle by compression, comprising:

4               a vegetable-based wax; and

5               a petroleum wax,

6               wherein said composition comprises a greater amount of

7    said vegetable-based wax than said petroleum wax.

8

9    2.   A vegetable wax-based composition according to claim

10   1, wherein said vegetable-based wax has a melting point of

11   56 to 62°C and an iodine value of 22 to 34.

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13   3.   A vegetable wax-based composition according to claim

14   1, wherein said petroleum wax is a paraffin wax.

15

16   4.   A vegetable wax-based composition according to claim

17   1, wherein said petroleum wax has a melting point of 55 to

18   61°C.

19

20   5.   A vegetable wax-based composition according to claim 1,

21   wherein said composition includes a fragrance.

22

23   6.   A vegetable wax-based composition according to claim 5,

24   wherein said fragrance is present up to 25% by weight.

1 7. A vegetable wax-based composition according to claim 1,  
2 wherein said vegetable wax-based composition comprises at  
3 least 50% by weight of said vegetable-based wax.

4

5 8. A vegetable wax-based composition according to claim 1,  
6 wherein said vegetable wax-based composition comprises at  
7 most 49% by weight of said petroleum wax.

8

9 9. A vegetable wax-based composition according to claim 1,  
10 wherein said vegetable wax-based composition includes a  
11 binder.

12

13 10. A vegetable wax-based composition according to claim  
14 1, wherein said vegetable wax-based composition includes a  
15 colorant.

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17 11. A vegetable wax-based composition according to claim  
18 1, wherein said vegetable wax-based composition includes an  
19 antioxidant.

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21 12. A vegetable wax-based composition according to claim  
22 1, wherein said vegetable wax-based composition includes a  
23 UV absorber.

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1 13. A vegetable wax-based composition according to claim  
2 1, wherein said vegetable wax-based composition includes a  
3 co-binder.

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5 14. A vegetable wax-based composition according to claim  
6 1, wherein said vegetable wax-based composition is encased  
7 in an encasing layer.

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9 15. A vegetable wax-based composition according to claim  
10 14, wherein said encasing layer consists substantially of a  
11 petroleum wax.

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13 16. A vegetable wax-based composition according to claim  
14 14, wherein the average melting point of said outer layer  
15 is greater than the average melting point of said vegetable  
16 wax-based composition.

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18 17. A vegetable wax-based composition according to claim  
19 14, wherein said vegetable wax-based composition comprises  
20 at least 65% by weight of said candle.

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22 18. A vegetable wax-based composition according to claim  
23 14, wherein said encasing layer comprises at most 35% by  
24 weight of said candle.

1 19. A vegetable wax-based composition according to claim  
2 1, wherein said vegetable wax-based composition further  
3 comprises color speckles.

4

5 20. A vegetable wax-based composition suitable for  
6 manufacturing a candle by compression, comprising:

7 a vegetable-based wax; and

8 a petroleum wax,

9 wherein said vegetable wax-based composition comprises  
10 a greater amount of said vegetable-based wax than said  
11 petroleum wax,

12 wherein said vegetable wax-based composition is  
13 further encased in an encasing layer, and

14 wherein said encasing layer consists substantially of  
15 a petroleum wax.

16

17 21. A vegetable wax-based composition according to claim  
18 20, wherein said vegetable-based wax has a melting point of  
19 56 to 62°C and an iodine value of 20 to 34.

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21 22. A vegetable wax-based composition according to claim  
22 20, wherein said petroleum wax is a paraffin wax.

23

1 23. A vegetable wax-based composition according to claim  
2 20, wherein said petroleum wax has a melting point of 55 to  
3 61°C.

4

5 24. A vegetable wax-based composition according to claim  
6 20, wherein said vegetable wax-based composition includes a  
7 fragrance.

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9 25. A vegetable wax-based composition according to claim  
10 24, wherein said fragrance is present up to 25% by weight.

11

12 26. A vegetable wax-based composition according to claim  
13 20, wherein said vegetable wax-based composition comprises  
14 at least 50% by weight of said vegetable-based wax.

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16 27. A vegetable wax-based composition according to claim  
17 20, wherein said vegetable wax-based composition comprises  
18 at most 49% by weight of said petroleum wax.

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20 28. A vegetable wax-based composition according to claim  
21 20, wherein said vegetable wax-based composition includes a  
22 binder.

23

1 29. A vegetable wax-based composition according to claim  
2 20, wherein said vegetable wax-based composition includes a  
3 colorant.

4

5 30. A vegetable wax-based composition according to claim  
6 20, wherein said vegetable wax-based composition includes  
7 an antioxidant.

8

9 31. A vegetable wax-based composition according to claim  
10 20, wherein said vegetable wax-based composition includes a  
11 UV absorber.

12

13 32. A vegetable wax-based composition according to claim  
14 20, wherein said vegetable wax-based composition includes a  
15 co-binder.

16

17 33. A vegetable wax-based composition according to claim  
18 20, wherein the melting point of said encasing layer is  
19 greater than the melting point of said vegetable wax-based  
20 composition.

21

22 34. A vegetable wax-based composition according to claim  
23 20, wherein said vegetable wax-based composition comprises  
24 at least 65% by weight of said candle.

1 35. A vegetable wax-based composition according to claim  
2 20, wherein said encasing layer comprises at most 35% by  
3 weight of said candle.

4

5 36. A vegetable wax-based composition according to claim  
6 20, wherein said vegetable wax-based composition further  
7 comprises color speckles.

8

9 37. A vegetable wax-based composition suitable for  
10 manufacturing a candle by compression, comprising:

11 a vegetable-based wax;

12 a petroleum wax;

13 a binder; and

14 a fragrance,

15 wherein said vegetable wax-based composition comprises  
16 a greater amount of said vegetable-based wax than said  
17 petroleum wax.

18

19 38. A vegetable wax-based composition according to claim  
20 37, wherein said vegetable-based wax has a melting point of  
21 56 to 62°C and an iodine value of 20 to 34.

22

23 39. A vegetable wax-based composition according to claim  
24 37, wherein said petroleum wax is paraffin wax.

1 40. A vegetable wax-based composition according to claim  
2 37, wherein said petroleum wax has a melting point of 55 to  
3 61°C.

4

5 41. A vegetable wax-based composition according to claim  
6 37, wherein said fragrance is present up to 25% by weight.

7

8 42. A vegetable wax-based composition according to claim  
9 37, wherein said vegetable wax-based composition comprises  
10 at least 50% by weight of said vegetable-based wax.

11

12 43. A vegetable wax-based composition according to claim  
13 37, wherein said vegetable wax-based composition comprises  
14 at most 49% by weight of said petroleum wax.

15

16 44. A vegetable wax-based composition according to claim  
17 37, wherein said vegetable wax-based composition includes a  
18 colorant.

19

20 45. A vegetable wax-based composition according to claim  
21 37, wherein said vegetable wax-based composition includes  
22 an antioxidant.

23



1 46. A vegetable wax-based composition according to claim  
2 37, wherein said vegetable wax-based composition includes a  
3 UV absorber.

4

5 47. A vegetable wax-based composition according to claim  
6 37, wherein said vegetable wax-based composition includes a  
7 co-binder.

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9 48. A vegetable wax-based composition according to claim  
10 37, wherein said vegetable wax-based composition is encased  
11 in an encasing layer.

12

13 49. A vegetable wax-based composition according to claim  
14 48, wherein said encasing layer consists substantially of a  
15 petroleum wax.

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17 50. A vegetable wax-based composition according to claim  
18 48, wherein the melting point of said encasing layer is  
19 greater than the melting point of said vegetable wax-based  
20 composition.

21

22 51. A vegetable wax-based composition according to claim  
23 48, wherein said vegetable wax-based composition comprises  
24 at least 65% by weight of said candle.

1 52. A vegetable wax-based composition according to claim  
2 48, wherein said encasing layer comprises at most 35% by  
3 weight of said candle.

4

5 53. A vegetable wax-based composition according to claim  
6 37, wherein said vegetable wax-based composition further  
7 comprises color speckles.

8

9 54. A vegetable wax-based composition suitable for  
10 manufacturing a candle by compression, comprising:

11 a vegetable-based wax;

12 a petroleum wax;

13 a binder; and

14 a fragrance,

15 wherein said vegetable wax-based composition comprises  
16 a greater amount of said vegetable-based wax than said  
17 petroleum wax, and

18 wherein said vegetable wax-based composition is  
19 further encased in an encasing layer, and

20 wherein said encasing layer consists substantially of  
21 a petroleum wax.

22

1 55. A vegetable wax-based composition according to claim  
2 54, wherein said vegetable-based wax has a melting point of  
3 56 to 62°C and an iodine value of 20 to 34.

4

5 56. A vegetable wax-based composition according to claim  
6 54, wherein said petroleum wax is a paraffin wax.

7

8 57. A vegetable wax-based composition according to claim  
9 54, wherein said petroleum wax has a melting point of 55 to  
10 61°C.

11

12 58. A vegetable wax-based composition according to claim  
13 54, wherein said fragrance is present up to 25% by weight.

14

15 59. A vegetable wax-based composition according to claim  
16 54, wherein said composition comprises at least 50% by  
17 weight of said vegetable-based wax.

18

19 60. A vegetable wax-based composition according to claim  
20 54, wherein said vegetable wax-based composition comprises  
21 at most 49% by weight of said petroleum wax.

22

23 61. A vegetable wax-based composition according to claim  
24 54, wherein said composition includes a colorant.

1 62. A vegetable wax-based composition according to claim  
2 54, wherein said composition includes an antioxidant.

3

4 63. A vegetable wax-based composition according to claim  
5 54, wherein said composition includes a UV absorber.

6

7 64. A vegetable wax-based composition according to claim  
8 54, wherein said composition includes a co-binder.

9

10 65. A vegetable wax-based composition according to claim  
11 54, wherein the melting point of said encasing layer is  
12 greater than the melting point of said vegetable wax-based  
13 composition.

14

15 66. A vegetable wax-based composition according to claim  
16 54, wherein said vegetable wax-based composition comprises  
17 at least 65% by weight of said candle.

18

19 67. A vegetable wax-based composition according to claim  
20 54, wherein said encasing layer comprises at most 35% by  
21 weight of said candle.

22

1 68. A vegetable wax-based composition according to claim  
2 54, wherein said vegetable wax-based composition further  
3 comprises color speckles.

4

5 69. A combustible candle composition, comprising:

6 a vegetable wax-based composition comprising  
7 petroleum wax and vegetable wax, and

8 an encasing layer comprising petroleum wax;

9 wherein said vegetable wax-based composition comprises  
10 a greater amount of said vegetable wax than said petroleum  
11 wax,

12 wherein said vegetable wax-based composition is formed  
13 via compression,

14 wherein said encasing layer is poured over said inner  
15 core, and

16 wherein said candle composition comprises a greater  
17 amount of said petroleum wax than said vegetable-based wax.

18

19 70. A candle composition according to claim 69, wherein  
20 said candle composition includes a fragrance.

21

22 71. A candle composition according to claim 70, wherein  
23 said fragrance is present up to 25% by weight.

24

1 72. A candle composition according to claim 69, wherein  
2 said vegetable wax has a melting point of 56 to 62°C and an  
3 iodine value of 20 to 34.

4

5 73. A candle composition according to claim 69, wherein  
6 said petroleum wax is a paraffin wax.

7

8 74. A candle composition according to claim 69, wherein  
9 said petroleum wax has a melting point of 55 to 61°C.

10

11 75. A candle composition according to claim 69, wherein  
12 said candle composition includes a binder.

13

14 76. A candle composition according to claim 69, wherein  
15 said candle composition includes a colorant.

16

17 77. A candle composition according to claim 69, wherein  
18 said candle composition includes an antioxidant.

19

20 78. A candle composition according to claim 69, wherein  
21 said candle composition includes a UV absorber.

22

23 79. A candle composition according to claim 69, wherein  
24 said candle composition includes a co-binder.

1 80. A candle composition according to claim 69, wherein  
2 the melting point of said encasing layer is greater than  
3 the melting point of said vegetable wax-based composition.

4

5 81. A candle composition according to claim 69, wherein  
6 said vegetable wax-based composition comprises at least 65%  
7 by weight of said candle.

8

9 82. A candle composition according to claim 69, wherein  
10 said encasing layer comprises at most 35% by weight of said  
11 candle.

12

13 83. A candle composition according to claim 69, wherein  
14 said candle composition further comprises color speckles.

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1 84. A combustible candle composition, comprising:  
2 a vegetable wax-based composition comprising  
3 petroleum wax and vegetable wax, and  
4 an encasing layer comprising petroleum wax;  
5 wherein said vegetable wax-based composition comprises  
6 a greater amount of said vegetable wax than said petroleum  
7 wax,  
8 wherein said vegetable wax-based composition is formed  
9 via compression,  
10 wherein said encasing layer is poured over said  
11 vegetable wax-based composition, and  
12 wherein said candle composition comprises a greater  
13 amount of said vegetable-based wax than said petroleum wax.

14  
15 85. A candle composition according to claim 84, wherein  
16 said candle composition also includes a fragrance.

17  
18 86. A candle composition according to claim 85, wherein  
19 said fragrance is present from 15-25% by weight.

20  
21 87. A candle composition according to claim 84, wherein  
22 said vegetable-based wax has a melting point of 56 to 62°C  
23 and an iodine value of 20 to 34.



1 88. A candle composition according to claim 84, wherein  
2 said petroleum wax is a paraffin wax.

3

4 89. A candle composition according to claim 84, wherein  
5 said petroleum wax has a melting point of 55 to 61°C.

6

7 90. A candle composition according to claim 84, wherein  
8 said candle composition includes a binder.

9

10 91. A candle composition according to claim 84, wherein  
11 said candle composition includes a colorant.

12

13 92. A candle composition according to claim 84, wherein  
14 said candle composition includes an antioxidant.

15

16 93. A candle composition according to claim 84, wherein  
17 said candle composition includes a UV absorber.

18

19 94. A candle composition according to claim 84, wherein  
20 said candle composition includes a co-binder.

21

22 95. A candle composition according to claim 84, wherein  
23 the melting point of said encasing layer is greater than  
24 the melting point of said vegetable wax-based composition.

1 96. A candle composition according to claim 84, wherein  
2 said vegetable wax-based composition comprises at least 65%  
3 by weight of said candle.

4

5 97. A candle composition according to claim 84, wherein  
6 said encasing layer comprises at most 35% by weight of said  
7 candle.

8

9 98. A candle composition according to claim 84, wherein  
10 said composition further comprises color speckles.

11

12 99. A method of making candles comprising the steps of:  
13 prilling a vegetable wax-based composition to form  
14 granules;  
15 compressing said granules,  
16 wherein said vegetable wax-based composition comprises  
17 a vegetable-based wax and a petroleum wax, and  
18 wherein said vegetable wax-based composition comprises  
19 a greater amount of said vegetable-based wax than said  
20 petroleum wax.

21

22 100. A method according to claim 99, wherein said vegetable  
23 wax-based composition includes a colorant.

24

1 101. A method according to claim 99, wherein said vegetable  
2 wax-based composition includes a fragrance.

3

4 102. A method according to claim 101, wherein said  
5 fragrance is present up to 25% by weight.

6

7 103. A method according to claim 99, wherein said  
8 vegetable-based wax has a melting point of 56 to 62°C and an  
9 iodine value of 22 to 32.

10

11 104. A method according to claim 99, wherein said petroleum  
12 wax is a paraffin wax.

13

14 105. A method according to claim 99, wherein said petroleum  
15 wax has a melting point of 55 to 61°C.

16

17 106. A method according to claim 99, wherein said vegetable  
18 wax-based composition comprises at least 50% by weight of  
19 said vegetable-based wax.

20

21 107. A method according to claim 99, wherein said vegetable  
22 wax-based composition comprises at most 49% by weight of  
23 said petroleum wax.

24

1 108. A method according to claim 99, wherein said candle  
2 includes a binder.

3

4 109. A method according to claim 99, wherein said candle  
5 includes an antioxidant.

6

7 110. A method according to claim 99, wherein said candle  
8 includes a UV absorber.

9

10 111. A method according to claim 99, wherein said candle  
11 includes a co-binder.

12

13 112. A method according to claim 99, wherein said method  
14 comprises a further step of encasing said vegetable wax-  
15 based composition with an encasing layer.

16

17 113. A method according to claim 112, wherein said encasing  
18 layer consists substantially of a petroleum wax.

19

20 114. A method according to claim 112, wherein the average  
21 melting point of said encasing layer is greater than the  
22 average melting point of said vegetable wax-based  
23 composition.

24

1 115. A method according to claim 112, wherein said  
2 vegetable wax-based composition comprises at least 65% by  
3 weight of said candle.

4

5 116. A method according to claim 112, wherein said encasing  
6 layer comprises at most 35% by weight of said candle.

7

8 117. A method according to claim 99, wherein said method  
9 further comprises embossing said candle via a mold.

10

11 118. A method according to claim 99, wherein said method  
12 further comprises debossing said candle via a mold.

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1 119. A method of making candles comprising the steps of:  
2           prilling a vegetable wax-based composition to  
3 form granules;  
4           compressing said granules; and  
5           encasing said vegetable wax-based composition  
6 with an encasing layer;  
7           wherein said vegetable wax-based composition comprises  
8 a vegetable-based wax and a petroleum wax, and  
9           wherein said vegetable wax-based composition comprises  
10 a greater amount of said vegetable-based wax than said  
11 petroleum wax, and  
12           wherein said encasing layer consists substantially of  
13 a petroleum wax.

14

15 120. A method according to claim 119, wherein said  
16 vegetable wax-based composition includes a colorant.

17

18 121. A method according to claim 119, wherein said  
19 vegetable wax-based composition includes a fragrance.

20

21 122. A method according to claim 121, wherein said  
22 fragrance is present up to 25% by weight.

23

1 123. A method according to claim 119, wherein said  
2 vegetable-based wax has a melting point of 56 to 62°C and an  
3 iodine value of 20 to 34.

4

5 124. A method according to claim 119, wherein said  
6 petroleum wax is a paraffin wax.

7

8 125. A method according to claim 119, wherein said  
9 petroleum wax has a melting point of 55 to 61°C.

10

11 126. A method according to claim 119, wherein said  
12 vegetable wax-based composition comprises at least 50% by  
13 weight of said vegetable-based wax.

14

15 127. A method according to claim 119, wherein said  
16 vegetable wax-based composition comprises at most 49% by  
17 weight of said petroleum wax.

18

19 128. A method according to claim 119, wherein said candle  
20 includes a binder.

21

22 129. A method according to claim 119, wherein said candle  
23 includes an antioxidant.

24

1 130. A method according to claim 119, wherein said candle  
2 includes a UV absorber.

3

4 131. A method according to claim 119, wherein said candle  
5 includes a co-binder.

6

7 132. A method according to claim 119, wherein said method  
8 further comprises embossing said candle via a mold.

9

10 133. A method according to claim 119, wherein said method  
11 further comprises debossing said candle via a mold.